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DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
OTTAWA



Published by Authority of the Rt. Hon. C. D. Howe, Minister of Trade and Commerce

Annual Industry Report

Chemicals and Allied Products Group

A50-50

THE FERTILIZER MANUFACTURING INDUSTRY, 1948

Price 25 cents

Production by factories in Canada which were engaged principally in the manufacture of fertilizers was valued at \$63,986,427 in 1948 compared with \$58,784,345 in 1947. In addition, there was a production of 236,187 tons of cyanamid, ammonium sulphate, mixed fertilizers and fish fertilizers valued at \$10,068,616 in 1948, and 234,181 tons at \$8,023,646 in 1947, by establishments which were classified to other industrial groups. The quantity of fish used as fertilizer in 1948 amounted to 57,248 barrels valued at \$62,485.

Thirty-three plants were occupied chiefly in the manufacture of fertilizers in 1948, there being 13 in Ontario, 6 in British Columbia, 5 in Quebec, 3 in New Brunswick, 3 in Nova Scotia, 2 in Prince Edward Island and 1 in Alberta. The average number of workers decreased from 3,258 in 1947 to 3,169 in 1948, although total salaries and wages increased from \$7,283,119 to \$8,015,656.

Total production of mixed fertilizers in 1948 from all industries amounted to 650,228 tons worth \$22,758,212 at factory prices and included 641,056 tons at \$22,220,008 made by plants in the fertilizer manufacturing industry and 9,172 tons at \$518,204 made in the meat packing, oils and fats and the adhesives industries. In 1947 the corresponding total was 673,782 tons at \$21,997,580 and in 1946 it was 597,855 tons at \$17,956,075.

Superphosphate was manufactured in 1948 by Canadian Industries Limited at McMasterville, Quebec; Hamilton, Ontario; and New Westminster, British Columbia. Ammonium nitrate (fertilizer grade) was manufactured in 1948 by the North American Cyanamid Limited, at Welland, Ontario, and by the Consolidated Mining and Smelting Company of Canada, Limited, at Trail, British Columbia and at Calgary, Alberta. The output figures are not published separately since there was only one producer in the case of the former and only two in the case of the latter.

Ammonium sulphate was made by the Consolidated Mining and Smelting Company of Canada, Limited, at Trail, British Columbia, and also by the following coke manufacturers: Algoma Steel Corporation Limited, at Sault Ste. Marie, Ontario; Dominion Steel and Coal Corporation, Ltd., at Sydney, Nova Scotia; Hamilton By-Product Coke Ovens, Limited, at Hamilton, Ontario; Montreal Coke and Manufacturing Company, at Montreal, Quebec, and The Steel Company of Canada, Limited, at Hamilton, Ontario. Production during the calendar year 1948 amounted to 215,109 tons; imports totalled 130 tons, and exports amounted to 146,379 tons. Ammonium phosphate was made only by the Consolidated Mining and Smelting Company of Canada, Limited, at Trail, British Columbia.

A special survey of the fertilizer trade in Canada during the fertilizer year ended June 30, 1949 has been completed by the Dominion Bureau of Statistics, and the results have been published in a special report. Summary figures on the sales of fertilizers have been reprinted in Tables 6 - 9 of this bulletin. A total of 741,726 tons of mixture and materials were sold in Canada during the year ended June 30, 1949, compared with 672,171 tons during the preceding twelve-month period.

Table 1 - PRINCIPAL STATISTICS OF THE FERTILIZER MANUFACTURING INDUSTRY, 1944-1948

Year	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1944	26	2,226	4,610,420	1,162,992	17,690,683	31,188,945
1945	26	2,146	4,418,916	1,116,081	18,708,175	34,505,756
1946	29	2,805	5,929,796	3,232,099	22,865,328	49,992,443
1947	31	3,258	7,283,119	2,465,076	27,417,467	58,784,345
1948	33	3,169	8,015,656	2,227,565	30,043,381	63,986,427
Per cent change						
1948 from 1947		-2.7	+ 10.1	-9.7	+ 9.6	+ 8.8

Note: Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

This Report was prepared in the Mining, Metallurgical and Chemical Section.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1947 and 1948

Province	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
<u>1947</u>						
Prince Edward Island ..	2)	133	207,235	17,892	2,591,325	3,378,946
Nova Scotia	3)					
New Brunswick	3	176	360,637	47,484	3,417,745	4,743,604
Quebec	5	293	568,767	38,393	4,530,651	6,724,777
Ontario	12	927	1,942,734	689,724	8,487,987	16,012,677
Alberta	1)					
British Columbia	5)	1,729	4,203,746	1,671,583	6,802,803	27,924,341
CANADA	31	3,258	7,283,119	2,465,076	27,417,467	58,784,345
<u>1948</u>						
Prince Edward Island ..	2)	141	231,395	19,769	3,099,602	4,070,075
Nova Scotia	3)					
New Brunswick	3	157	340,641	47,131	3,444,950	4,514,023
Quebec	5	268	572,107	48,817	4,400,967	6,645,337
Ontario	13	914	2,190,716	817,185	9,417,926	17,618,525
Alberta	1)					
British Columbia	6)	1,689	4,680,797	1,294,663	9,679,936	31,138,467
CANADA	33	3,169	8,015,656	2,227,565	30,043,381	63,986,427

Table 3 - PRODUCTS OF THE FERTILIZER MANUFACTURING INDUSTRY, CALENDAR YEARS, 1947 and 1948

NOTE: Figures in this table are for the Fertilizer Manufacturing Industry, which includes only the concerns which were engaged chiefly in the manufacture of fertilizers. Some fertilizers were made also in the other industries; for the total output of mixed fertilizers in Canada, see Table 5.

Product	1947		1948	
	Quantity Tons	Selling value at works \$	Quantity Tons	Selling value at works \$
Mixed fertilizers	669,433	21,792,944	641,056	22,220,008
Superphosphate, ammonium nitrate (fertilizer grade), ammonium phosphate and ammonium sulphate (completely manufactured) (x)	851,079	34,968,791	828,118	39,364,348
Superphosphate, milled and screened only: 16%-18%	450	9,200	402	9,012
20%	7,642	204,727	13,633	373,166
Ammonium sulphate, milled and screened only	1,302	52,373	1,364	61,372
Muriate of potash, milled and screened only: 50%	254	11,936	415	24,364
60%	1,605	97,304	1,415	78,595
Nitrate of soda, milled and screened only	38	1,957	...	...
All other products .....	...	1,645,113	...	1,855,562
TOTAL .....	...	58,784,345	...	63,986,427

(x) Ammonium nitrate (fertilizer grade) is manufactured in Canada by two companies only; superphosphate, ammonium phosphate and ammonium sulphate are manufactured by only one company in this industry, hence the production figures are not shown separately.

Table 6 - SALES IN CANADA OF FERTILIZERS, EXCEPT FOR MANUFACTURING PURPOSES, YEAR ENDED JUNE 30, 1949

Kind	Newfound- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Total sold in Canada
(Short tons)											
<u>Fertilizer Materials</u>											
Nitrate of soda	235	...	...	...	15	676	...	...	...	11	937
Sulphate of ammonia ..	2	691	264	357	332	290	32	27	794	1,543	4,332
Cyanamide .....	...	35	150	73	17	1,956	20	...	1	265	2,517
Ammonium nitrate (nitraprills)	136	635	831	546	653	2,187	8	...	17	1,394	6,407
Ammonium phosphate -											
11-48-0 .....	...	...	1	...	...	1,972	16,256	22,008	22,973	1,282	64,492
16-20-0 .....	...	...	...	...	...	141	350	599	3,222	2,722	7,034
Superphosphate *	24	2,762	1,131	1,782	6,971	11,172	1	12	26	1,129	25,010
Natural phosphate rock	...	...	...	...	218	32	...	...	...	119	369
Basic slag .....	...	...	...	...	2,964	...	...	...	...	...	2,964
Bone meal or bone flour .....	...	...	30	1	49	326	26	2	157	421	1,012
Muriate of potash -											
50% .....	...	295	...	12	30	398	...	...	...	...	735
60%	2	454	69	535	97	1,876	1	...	1	689	3,724
Sulphate or potash ...	...	...	2	...	1	138	1	...	4	100	246
Tankage .....	...	...	...	...	...	...	...	1	346	272	619
Sheep manure .....	...	...	44	...	341	889	21	20	...	140	1,455
Dried blood .....	...	...	...	...	...	11	...	3	25	64	103
Fishmeal .....	...	...	...	...	...	...	...	...	...	19	19
All other materials ..	...	24	74	16	329	6,849	30	...	190	481	7,993
TOTAL MATERIALS	399	4,896	2,596	3,322	12,017	28,913	16,746	22,672	27,756	10,651	129,968
Mixed fertilizers	4,093	46,536	33,150	72,210	138,699	293,036	291	101	246	17,396	611,758
TOTAL - 1949	4,492	51,432	38,746	75,532	150,716	327,949	17,037	22,773	28,002	28,047	741,726
TOTAL - 1948 .....	...	61,569	41,258	83,116	130,487	274,506	12,521	18,528	20,162	30,024	672,171

* Almost all 20% superphosphate.

NOTE: Although Newfoundland did not join Confederation until April 1, 1949, sales are shown for the full period July 1, 1948 - June 30, 1949.

Table 7 - MIXED FERTILIZERS SOLD IN CANADA AND FOR EXPORT DURING THE YEAR ENDED JUNE 30, 1949

N	P ₂ O ₅	K ₂ O	Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan and Alberta	British Columbia	TOTAL SOLD IN CANADA	Exported from Canada	Fertilizers
0	12	12	...	...	...	...	4	5,099	...	...	5,103	...	
0	12	20	...	...	...	...	...	3,127	...	806	3,933	...	
0	14	7	...	...	...	...	4,184	18,935	...	...	23,119	2	
2	8	16	...	...	...	2	884	2,297	...	...	3,183	5	
2	10	8	...	...	...	...	284	30,705	...	...	30,989	...	
2	12	6	618	367	6,569	6,369	54,200	106,847	11	...	174,981	44	
2	12	10	...	...	...	...	11,534	51,076	...	34	62,644	...	
2	14	8	...	...	...	...	1,612	2,378	...	...	3,990	...	
2	16	6	...	...	...	...	4,424	7,877	38	1,194	13,533	2	
3	10	8	...	...	...	...	1	9,677	3	...	9,681	...	
3	15	6	45	5,402	6,300	2,429	...	...	...	...	14,176	9	
3	18	9	...	...	...	...	...	5,230	...	...	5,230	...	
4	8	10	2,411	6,056	7,670	30,825	49,269	37,690	21	...	133,942	100	
4	10	10	...	...	...	...	...	...	29	7,606	7,635	...	
4	12	6	675	464	5,290	2,580	1,624	4,944	18	14	15,609	556	
4	12	10	...	...	...	10	...	4,340	...	5	4,355	...	
5	7	10	...	...	...	...	...	...	...	...	...	5,695	
5	8	7	...	...	...	...	3,404	18	...	...	3,422	150	
5	10	10	201	12,639	2,967	11,806	3,626	85	...	7	31,331	3,790	
5	10	13	68	21,502	1,467	14,494	40	...	...	...	37,571	...	
6	8	6	...	...	...	...	...	...	...	2,104	2,104	...	
6	9	9	...	...	...	...	...	...	...	...	...	5,080	
6	9	12	19	36	109	3,423	...	...	...	...	3,587	13,748	
9	5	7	53	2	2,171	184	1,862	573	...	...	4,845	25	
Other mixtures			3	68	607	88	1,747	8,138	518	5,626	16,795	8,470	
TOTAL - 1949			4,093	46,536	33,150	72,210	138,699	299,036	638	17,396	611,758	37,676	
TOTAL - 1948			...	55,357	36,827	79,957	121,745	251,948	513	18,525	564,872	44,631	

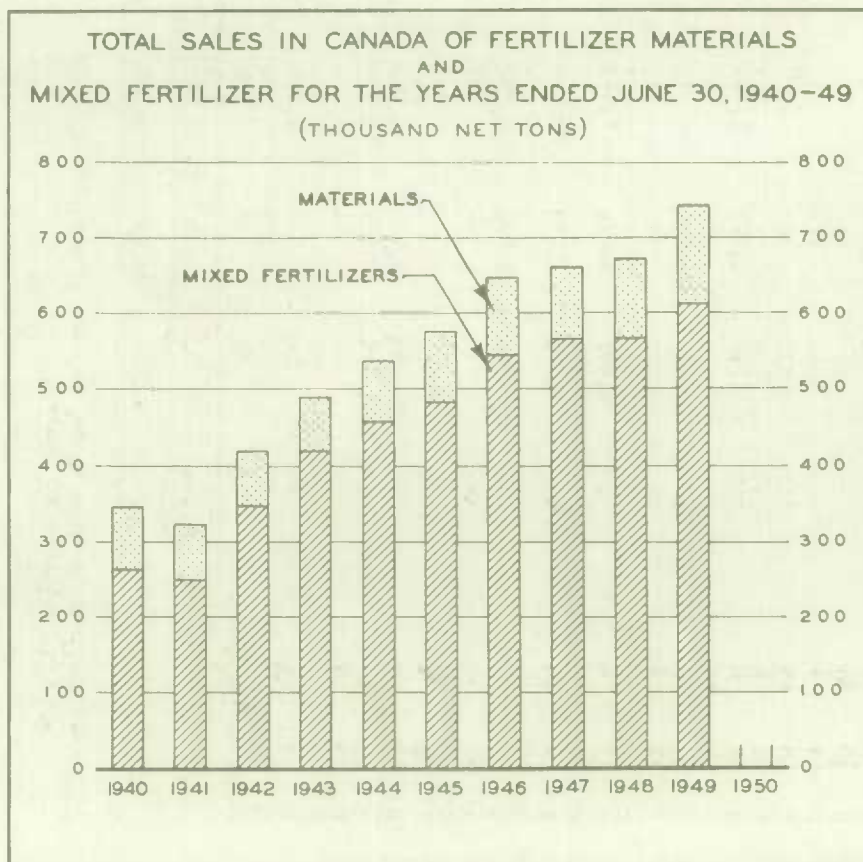
NOTE: The figures in this table include tobacco fertilizers, and those fertilizers containing boron and magnesium oxide. See also footnote to Table 6.

Table 8 - TOTAL SALES* IN CANADA OF FERTILIZER MATERIALS AND MIXED FERTILIZERS FOR THE YEARS ENDED JUNE 30, 1948 and 1949

Province	Year Ended June 30	
	1948	1949
(Tons of 2,000 pounds)		
Fertilizer Materials -		
Newfoundland .....	...	399
Prince Edward Island	6,212	4,896
Nova Scotia	4,431	2,596
New Brunswick	3,159	3,322
Quebec	8,742	12,017
Ontario	22,558	28,913
Manitoba, Saskatchewan and Alberta	50,698	67,174
British Columbia	11,499	10,651
CANADA	107,299	129,968
Mixed Fertilizers -		
Newfoundland .....	...	4,093
Prince Edward Island	55,357	46,536
Nova Scotia	36,827	33,150
New Brunswick	79,957	72,210
Quebec	121,745	138,699
Ontario	251,948	299,036
Manitoba, Saskatchewan and Alberta	513	638
British Columbia	18,525	17,396
CANADA	564,872	611,758

* - Except for manufacturing purposes.

NOTE: See footnote to Table 6.



Fertilizer

- 7 -

Table 9 - TOTAL SALES * IN CANADA OF FERTILIZER MATERIALS AND MIXED FERTILIZERS FOR THE YEARS ENDED
JUNE 30, 1940-1949

Year Ended June 30	Fertilizer	Mixed	Total Sold
	materials	Fertilizers	in Canada
		(Tons of 2,000 pounds)	
1940	85,638	261,083	346,721
1941	74,534	249,667	324,201
1942	72,136	347,411	419,547
1943	72,162	417,699	489,861
1944	79,233	455,875	535,108
1945	92,026	483,081	575,107
1946	102,639	543,406	646,045
1947	95,870	564,851	660,721
1948	107,299	564,872	672,171
1949	129,968	611,758	741,726

* - Except for manufacturing purposes.

Table 10 - PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF AMMONIUM SULPHATE, 1939-1948

Year	Production	Imports	Exports
		(tons)	
1939	129,865	3,217	109,260
1940	115,679	355	72,485
1941	98,662	57	59,480
1942	116,796	5,045	79,236
1943	196,404	39	141,080
1944	209,578	104	167,496
1945	221,499	105	181,189
1946	197,103	63	155,446
1947	196,825	124	158,975
1948	215,109	130	146,379

Table 11 - IMPORTS INTO CANADA AND EXPORTS OF FERTILIZERS, 1947 and 1948

Item	1 9 4 7		1 9 4 8	
	Quantity	Value	Quantity	Value
<u>Imports</u>				
Ammonia, sulphate of,	cwt. 2,474	12,371	2,607	16,990
Blast furnace slag, basic slag *	cwt. 999,361	64,386	1,114,157	137,032
Kainite or German potash salts and German mineral potash	cwt. 159,960	88,018	170,999	66,665
Potash, muriate of, crude	cwt. 1,934,607	3,051,716	2,064,169	2,877,873
Potash, sulphate of, crude	cwt. 58,158	85,875	103,799	189,854
Nitrate of soda or cubic nitre	cwt. 335,397	583,421	394,096	807,485
Fertilizers, superphosphate or acid phosphate of lime	cwt. 2,839,506	2,158,511	2,387,667	1,861,922
Fertilizers, compounded or manufac- tured, n.o.p.	cwt. 129,181	154,606	121,499	170,963
Fertilizers, unmanufactured, n.o.p. ..	cwt. 153,540	385,924	67,182	168,906
<u>Exports</u>				
Ammonium sulphate	cwt. 3,179,502	5,356,757	2,927,587	5,923,549
Phosphate (fertilizer)	cwt. 3,267,420	8,037,118	2,693,588	7,480,609
Fertilizers, manufactured, n.o.p.	cwt. 9,375,042	20,992,290	8,221,612	22,970,277

* - Includes slag imported for use in the manufacture of mineral wool.

NOTE: In each case, the period covered in the above table refers to the "calendar" year.

Table 12 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1947 and 1948.

Province	Average Number of Employees				Total	Salaries	Wages	TOTAL SALARIES AND WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<u>1947</u>								
New Brunswick	14	6	156	...	176	52,903	307,734	360,637
Quebec	38	11	244	...	293	151,944	416,823	568,767
Ontario	190	50	686	1	927	617,385	1,325,349	1,942,734
British Columbia .	144	26	1,194	...	1,364	693,137	2,689,702	3,382,839
Other provinces ..	87	25	376	10	498	309,230	718,912	1,028,142
CANADA	473	118	2,656	11	3,258	1,824,599	5,458,520	7,283,119
<u>1948</u>								
New Brunswick	16	6	135	...	157	62,961	277,680	340,641
Quebec	49	11	207	1	268	156,774	415,333	572,107
Ontario	205	54	652	3	914	710,089	1,480,627	2,190,716
British Columbia .	188	26	1,172	...	1,386	753,654	3,157,852	3,911,506
Other provinces ..	83	26	326	9	444	327,528	673,158	1,000,686
CANADA	541	123	2,492	13	3,169	2,011,006	6,004,650	8,015,656

LIST OF FIRMS IN THE FERTILIZER MANUFACTURING INDUSTRY, 1948

Name	Location of Plant
<u>Prince Edward Island -</u>	
The Island Fertilizer Co. Ltd.	Charlottetown
The Summerside Fertilizer Co. Ltd.	Summerside
<u>Nova Scotia -</u>	
Canadian Industries Limited (Fertilizer Division)	Pier 9, Halifax
Canada Packers Limited	Port Williams
Colonial Fertilizer Co. Ltd.	Nesbit St., Windsor
<u>New Brunswick -</u>	
Canada Packers Limited (Fertilizer Division)	Bayside Drive, East Saint John
International Fertilizers Limited	East Saint John
Summers Fertilizer Co. Inc.	Prince William St., St. Stephen
<u>Quebec -</u>	
Agricultural Chemicals Ltd.	Chambly
Canada Packers Limited	6000 St. Patrick St., Montreal
Canadian Industries Limited (Fertilizer Division)	1490 Marlborough St., Montreal
Canadian Industries Limited (Fertilizer Division)	McMasterville
International Fertilizers Limited	Wolfe's Cove, Quebec
<u>Ontario -</u>	
Agricultural Chemicals Ltd.	Marsh St., Port Hope
Canada Packers Limited	2200 St. Clair Ave. W., Toronto
Canada Packers Limited	Welland
Canadian Industries Limited (Fertilizer Division)	King St. E., Chatham
Canadian Industries Limited (Fertilizer Division)	Burlington & Ottawa Sts., Hamilton
Hy-Trous Co. of Canada Ltd.	123½ Pitt St., Cornwall
Misner Seeds & Fertilizer	Port Dover
Na-Churs Plant Food Co. (Canada) Ltd.	2 Langarth St. W., London
North American Cyanamid Limited, Welland Works,	Garner Rd., Niagara Falls
Read Brothers Fertilizers, Limited	Union St., Elmira
Stone, William, Sons Ltd.	Ingersoll
United Co-Operatives of Ontario	4004 Dundas St. W., Toronto
Witts Fertilizer Works Ltd.	Norwich

LIST OF FIRMS IN THE FERTILIZER MANUFACTURING INDUSTRY, 1948
(Concluded)

<u>Name</u>	<u>Location of Plant</u>
<u>Alberta -</u>	
Consolidated Mining and Smelting Co. of Canada Limited	Calgary
<u>British Columbia -</u>	
Buckerfield's Limited	Foot of Rogers St., Vancouver
Canadian Industries Limited (Fertilizer Division)	Foot of 16th St., New Westminster
Consolidated Mining and Smelting Co. of Canada Limited	Trail
Garden Supplies Company	1820 W. 3rd Ave., Vancouver
Globe Fertilizer Co. Ltd.	Foot Crompton Road, Vancouver
Old Gardener Products Ltd.	1156 E. 15th Ave., Vancouver

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